

СЕТЕВАЯ КАМЕРА

Руководство пользователя

QNP-6230RH



Сетевая Камера

Руководство пользователя

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❖ Конструкция и характеристики устройства могут быть изменены без предварительного уведомления.

❖ Первоначальный ID администратора - "admin", а пароль следует задать при первом входе в систему.

Для надежной защиты личной информации и предотвращения ущерба от кражи данных меняйте пароль каждые три месяца.

Имейте в виду, что ответственность за безопасность а также за любые проблемы, связанные с ненадлежащим обращением с паролем, несет пользователь.

ВАЖНЫЕ ПРАВИЛА ТЕХНИКИ БЕЗОПАСНОСТИ

1. Прочтите эти правила.
2. Сохраните эти правила.
3. Принимайте во внимание все предупреждения.
4. Следуйте всем правилам.
5. Не используйте изделие вблизи воды.
6. Очищайте загрязненные места на поверхности изделия мягкой, сухой или влажной тряпкой.
(Не используйте моющие средства либо косметические продукты, содержащие спирт, растворители, либо ПАВ, либо смазочные материалы, поскольку они могут привести к деформации или повреждению продукта.)
7. Не загромождайте никакие вентиляционные отверстия. Выполните установку изделия в соответствии с инструкциями изготовителя.
8. Не устанавливайте изделие рядом с источниками тепла, такими, как радиаторы, решетки системы отопления, или другими устройствами, которые генерируют тепло (включая усилители).
9. В целях безопасности не отказывайтесь от использования вилок поляризованного или заземляющего типа. Вилка поляризованного типа имеет два ножевых контакта, один из которых шире другого. Вилка заземляющего типа имеет два контакта и третий заземляющий штырь. Широкое лезвие третьего заземляющего штыря предусмотрено для вашей безопасности.
Если вилка поставляемого вместе с аппаратом шнура питания не подходит для вашей розетки, попросите опытного электрика заменить старую розетку.
10. Не наступайте на шнур питания и не допускайте его защемления, особенно вблизи от штепсельной вилки, в месте подключения к розетке и там, где шнур выходит из изделия.
11. Пользуйтесь только теми приспособлениями/ принадлежностями, которые рекомендованы изготовителем.
12. Используйте устройство только с тележкой, подставкой, штативом, кронштейном и столом, указанными производителем или приобретенными вместе с устройством. Во избежание травм вследствие опрокидывания тележки с устройством соблюдайте осторожность при ее передвижении.
13. Отсоединяйте устройство от сети во время грозы или если оно не используется в течение длительного времени.
14. Все работы, связанные с техническим обслуживанием изделия, должны выполняться квалифицированными специалистами по техническому обслуживанию. Обслуживание изделия требуется выполнять, когда изделие получило какое-либо повреждение, например, был поврежден его шнур питания или вилка шнура питания, внутрь изделия попала жидкость или посторонние предметы, изделие подверглось воздействию дождя или влаги, изделие не работает должным образом, а также после падения изделия.
15. Это изделие предназначено для поставки с указанным источником питания с маркировкой «Класс 2» или «LPS» и номинальной мощностью PoE от 55 В пост. тока, мин. 0,93 А, или 24 В перем. тока (50 или 60 Гц), мин. 4,25 А.
16. Этот продукт должен поставляться с применением изолированно работающей энергосистемы.
17. Если при установке изделия прилагать чрезмерные усилия, возможно повреждение с нарушением работы камеры.
Если с силой устанавливать устройство, пользуясь неподходящими инструментами, возможно повреждение устройства.
18. Не допускается установка устройства в местах, где присутствуют или могут появляться химические вещества или пары масла, Поскольку пищевые масла, например, соевое, могут вызвать повреждение или привести к деформации устройства, не устанавливайте его на кухне или вблизи кухонного стола.
В противном случае возможна порча устройства.
19. При установке устройства будьте осторожны, не допускайте попадания химических веществ на его поверхность.
Некоторые химические растворители, например, очистители или клеящие вещества, могут сильно повредить поверхность продукта.
20. Если монтировать/демонтировать устройство не рекомендованным образом, нельзя гарантировать выполнение функций/ соответствие характеристик устройства.
Устанавливайте устройство, обратившись к разделу "Установка и подключение" в руководстве пользователя.
21. Установка или эксплуатация устройства в воде может привести к значительному повреждению изделия.
22. При нормальной эксплуатации изделия предварительная заданная точность составляет 0,2°. В случае перезагрузки вследствие отключения питания, обновления прошивки и других причин может потребоваться скорректировать допустимое отклонение после проверки изменений в настройке предустановок.



ПРЕДУПРЕЖДЕНИЕ

ВО ИЗБЕЖАНИЕ ПОВРЕЖДЕНИЙ, СЛЕДСТВИЕМ КОТОРЫХ МОЖЕТ БЫТЬ ПОЖАР ИЛИ ПОРАЖЕНИЕ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ ДОПУСКАЙТЕ ПОПАДАНИЯ ДАННОГО ИЗДЕЛИЯ ПОД ДОЖДЬ ИЛИ В УСЛОВИЯ ВЫСОКОЙ ВЛАЖНОСТИ. ЗАПРЕЩАЕТСЯ ВСТАВЛЯТЬ КАКИЕ-ЛИБО МЕТАЛЛИЧЕСКИЕ ПРЕДМЕТЫ В ВЕНТИЛЯЦИОННЫЕ РЕШЕТКИ ИЛИ ДРУГИЕ ОТВЕРСТИЯ В ОБОРУДОВАНИИ.

Не подвергайте устройство воздействию жидкостей. Не следует также ставить на него предметы, наполненные жидкостью, например вазы.

Во избежание травм данное устройство должно быть надежно закреплено на стене/потолке в соответствии с инструкциями по установке.

Гарантия на механизмы панорамирования, наклона и увеличения, а также на контактное кольцо предоставляется на один год в условиях непрерывного использования.

ВНИМАНИЕ

	ВНИМАНИЕ ОПАСНОСТЬ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ. НЕ ОТКРЫВАТЬ	
ВНИМАНИЕ : ВО ИЗБЕЖАНИЕ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ СНИМАЙТЕ ЗАДНЮЮ КРЫШКУ. ВНУТРИ НЕТ ДЕТАЛЕЙ, ОБСЛУЖИВАЕМЫХ ПОЛЬЗОВАТЕЛЕМ. ДЛЯ ТЕХНИЧЕСКОГО ОБСЛУЖИВАНИЯ ОБРАЩАЙТЕСЬ К КВАЛИФИЦИРОВАННОМУ СПЕЦИАЛИСТУ.		

ОПИСАНИЕ ГРАФИЧЕСКИХ ОБОЗНАЧЕНИЙ



Молния со стрелкой в равностороннем треугольнике предупреждает пользователя об "опасном напряжении" в корпусе изделия, которое может представлять риск поражения электрическим током.



Восклицательный знак в равностороннем треугольнике предупреждает пользователя о важных инструкциях по работе и обслуживанию в руководстве, которое прилагается к устройству.

Класс Конструкции I

Устройства КЛАССА I следует подключать к ЭЛЕКТРО розетке с защитным заземлением.

Батарея

Не подвергайте батареи (батарейный блок) чрезмерному нагреванию под воздействием солнечных лучей, огня и т.п.

Батарею невозможно заменить.

Отключение устройства

Отсоедините вилку кабеля питания от устройства в случае повреждения. Обратитесь к местному специалисту по ремонту.

При использовании за пределами США с соединениями одобренными соответствующим органом, может использоваться кодировка HAR.

ВНИМАНИЕ

Настоящие инструкции по обслуживанию предназначены только для квалифицированных специалистов.

Во избежание поражения электрическим током не следует выполнять работы по обслуживанию, описанные в инструкциях по эксплуатации, если вы не обладаете соответствующей квалификацией.

Выходной разъем CVBS устройства предназначен для облегчения монтажа и не рекомендуется использовать его для целей мониторинга.

К источнику входного питания может подсоединяться только одна камера.

Оборудование ITE подключается только к сети питания по Ethernet без маршрутизации на оборудование наружной установки.

Внимательно прочитайте приведенные ниже правила техники безопасности.

- Не ставьте устройство на неровную поверхность.
- Не устанавливайте устройство на поверхность, подверженную прямым солнечным лучам, рядом с нагревательным оборудованием или в очень холодном месте.
- Не устанавливайте это устройство вблизи электропроводящего.
- Не следует ремонтировать устройство самостоятельно.
- Не следует ставить на устройство стаканы с водой.
- Не устанавливайте поблизости источники магнитного поля.
- Не допускайте заграждения вентиляционных отверстий.
- Не ставьте тяжелые предметы на устройство.
- При установке/демонтаже камеры надевайте защитные перчатки. Высокая температура поверхности изделия может вызвать ожог.

Руководство пользователя содержит инструкции по использованию продуктов.

В руководстве используются следующие обозначения.

- Справка : сведения по использованию устройства
 - Примечание : На случай возможных повреждений имущества или вреда здоровью людей в результате несоблюдения инструкций
- ✳ Прочтите это руководство по безопасности перед использованием устройств и сохраните его в безопасном месте.

В некоторых условиях установки могут возникать помехи радиосвязи.

Если данное устройство и какое-либо устройство радиосвязи создают взаимные электромагнитные помехи, рекомендуется разнести их на достаточное расстояние или изменить направление приемной антенны.

ОБЗОР 3	3	Важные правила техники безопасности
	6	Рекомендуемая Конфигурация Пк
	6	Рекомендуемые характеристики карт памяти Микро SD/SDHC/SDXC
	6	Рекомендуемые Технические Характеристики NAS
	7	Комплект Поставки
	8	Общий Обзор

УСТАНОВКА И ПОДКЛЮЧЕНИЕ 10	10	Установка
	14	Подключение к Другому Устройству

СЕТЕВОЕ СОЕДИНЕНИЕ И НАСТРОЙКА 18	18	Подключение Камеры Напрямую к Локальной Сети
	18	Прямое Подключение Камеры к Модему DSL/кабельному Модему С Поддержкой Протокола DHCP
	19	Использование Device Manager
	19	Автоматический поиск камеры
	19	Настройка IP-адреса
	20	Регистрация камеры вручную
	20	Автоматическая настройка IP
	21	Настройка Переадресации Диапазона Портов (Распределение Портов)
	22	Подключение к Камере с Локального Компьютера Общего Доступа
	22	Подключение к Камере с Удаленного Компьютера Через Интернет

ИНТЕРАКТИВНАЯ ПРОГРАММА ПРОСМОТРА 23	23	Подключение к Камере
	24	Установка пароля
	24	Вход
	24	Настройка Web Viewer

ПРИЛОЖЕНИЕ 25	25	Характеристики
	27	Приложение
	28	Поиск и Устранение неполадок
	29	Open Source Announcement

РЕКОМЕНДУЕМАЯ КОНФИГУРАЦИЯ ПК

- Процессор : Intel(R) Core(TM) i7 3,4 ГГц или больше
- ОЗУ: 8 ГБ или больше
- Поддерживаемые ОС : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14
- Рекомендуемый браузер: Google Chrome
- Поддерживаемые браузеры: MS Explore11, MS Edge, Mozilla Firefox (только 64-битная Windows), Apple Safari (только Mac OSX)

✳️ Подробные данные о версиях проверенных ОС и браузеров см. в приложении.

РЕКОМЕНДУЕМЫЕ ХАРАКТЕРИСТИКИ КАРТ ПАМЯТИ МИКРО SD/SDHC/SDXC

- Рекомендуемая емкость : от 16 до 256 Гбайт (типа MLC)
- Рекомендуемые производители: SanDisk, Transcend
- Тип карты: износостойкая
- Совместимость может отличаться в зависимости от производителя и типа карты.

РЕКОМЕНДУЕМЫЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ NAS

- Рекомендуемый объем : Рекомендуемый объем – не менее 200 ГБ.
- Одновременный доступ : К одному устройству NAS может иметь доступ максимум шестнадцать камер.
- Для этой модели камеры рекомендуется использование NAS со следующими техническими характеристиками производителя.

Рекомендуемые продукты	Доступные размеры
QNAP NAS	Максимальное количество камер для одновременного доступа - 16.
Synology NAS	Максимальное количество камер для одновременного доступа - 16.



▪ Если предполагается использование оборудования NAS не только для хранения видеоматериалов, количество одновременно доступных камер может быть сокращено.

КОМПЛЕКТ ПОСТАВКИ

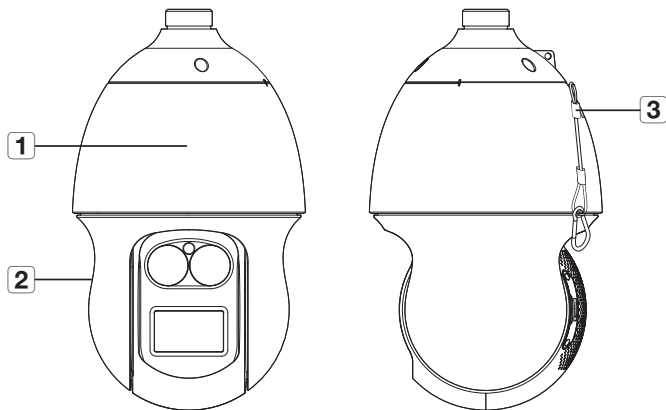
Проверьте наличие всех принадлежностей в комплекте поставки камеры.
(У изделий, продаваемых в разных странах, принадлежности могут отличаться.)

Внешний вид	Название элемента	Количество	Описание
	Основной корпус	1	
	Краткое Руководство (необязательно)	1	
	Гарантийный талон (необязательно)	1	
	Кабель для тестирования монитора	1	Используется для подключения камеры к портативному устройству отображения
	Аудиоразъем/разъем RS-485	1	Используется для подключения аудиовыхода и RS-485
	Винт с шестигранной головкой	3	Используется для крепления основания для установки к камере.
	Г-образный ключ	1	Используется для фиксации основания для установки после прикрепления его к камере.

Внешний вид	Название элемента	Количество	Описание
	Основание для установки	1	Кронштейн для установки устройства
	Гидроизоляционные принадлежности	1	Устанавливаются для использования в местах с высокой влажностью

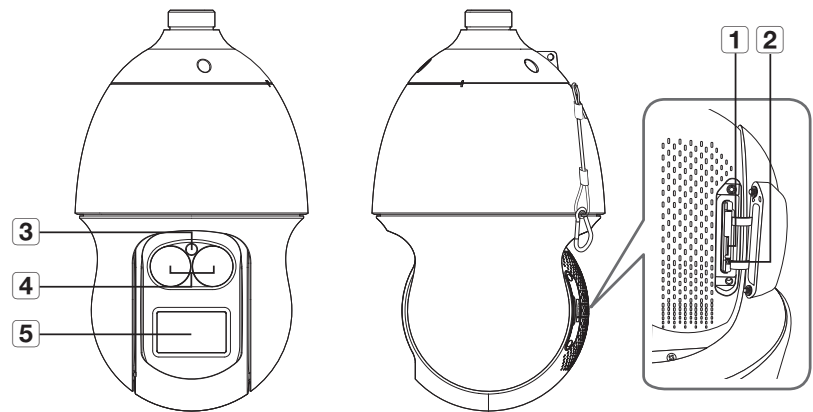
ОБЩИЙ ОБЗОР

Внешний вид



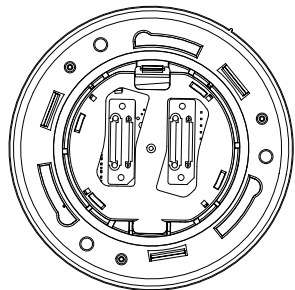
Элемент	Описание
1 Основная секция	Защищает внутренний механизм PTZ от воздействия прямых солнечных лучей, дождя и других внешних воздействий.
2 Крышка	Крышка для защиты объектива и самого устройства.
3 Предохранительный трос	Трос предохраняет изделие от падения при установке.

Внутренняя часть

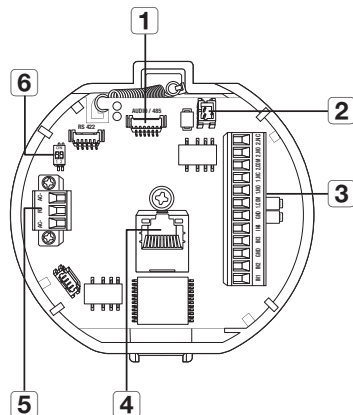


Элемент	Описание
1 Отсек для карты памяти Micro SD	Отсек для карты памяти Micro SD. ☒ См. Раздел <Вставление/извлечение карточки памяти Micro SD> для определения положения установки карты памяти Micro SD. (стр. 10)
2 Кнопка сброса	Восстановление заводских настроек по умолчанию для всех параметров камеры. Для перезагрузки системы нажмите и удерживайте в течение 5 секунд. ☒ Если сбросить настройки камеры, то сетевые настройки позволят активировать DHCP. Если в сети нет DHCP-сервера, то перед первым подключением к сети необходимо запустить программу Device Manager, чтобы изменить основные сетевые параметры, такие как IP-адрес, маска подсети, шлюз и т. д.
3 Светочувствительный датчик	Обнаруживает поступающий свет для управления инфракрасным светодиодом.
4 Инфракрасный светодиод	Инфракрасные светодиоды управляются светочувствительным датчиком.
5 Объектив	Объектив видеокамеры.

Основание для установки
- вид снизу



Основание для установки
- вид изнутри



Элемент	Описание
1 Аудиоразъем/разъем RS-485	Это выход для подключения аудиокабеля и кабеля RS-485.
2 Порт видеовыхода	Порт аналогового видеовыхода. (для установки)
3 Порт ввода-вывода тревог	Используется для подключения кабеля ввода-вывода тревог.
4 Порт подключения HPoE	Разъем, через который подключается питание и сеть через адаптер HPoE.
5 Порт питания	Используется для подключения кабеля питания.
6 Переключатель настройки связи	Установите коммуникационный протокол (RS-485) и укажите, требуется ли оконцовка.

УСТАНОВКА

- !

- Эта камера водонепроницаема и соответствует стандарту IP66, однако штекер внешнего кабеля водонепроницаемым не является. Рекомендуется установить это устройство под карнизом во избежание выпутания кабеля наружу.

Меры предосторожности, принимаемые перед установкой

Прежде чем устанавливать камеру, обязательно прочтите приведенные далее инструкции.

- Выберите место для установки, которое сможет выдержать вес, минимум в 5 раз превышающий вес самой камеры.
- Кабели с поврежденной или снятой изоляцией могут стать причиной повреждения устройства или возгорания.
- С целью предосторожности попросите посторонних лиц покинуть место установки. На всякий случай уберите все посторонние личные вещи.
- Если аппарат устанавливать с чрезмерным усилием, это может привести к повреждению камеры из-за неправильной работы.
При сборке неподходящими инструментами с приложением усилий возможно повреждение аппарата.

Установка карты памяти microSD

1.

При помощи отвертки ослабьте два винта на кронштейне держателя карты SD, повернув их против часовой стрелки.

- !

- Перед установкой карты Микро SD отключите кабель питания от камеры.
 - Не рекомендуется вставлять или вынимать карту памяти Микро SD во время дождя или при высокой влажности.
 - Перед установкой/извлечением карты памяти microSD убедитесь, что устройство находится на ровной поверхности, во избежание потери или падения каких-либо деталей.
 - Не вынимайте винт.

2.

Вытащите кронштейн держателя карты SD и потяните карту памяти microSD в направлении стрелки, как показано на рисунке.

- !

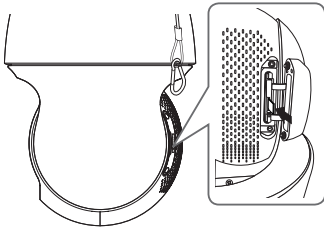
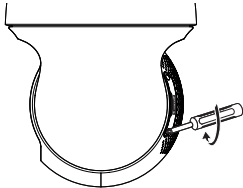
- Не пытайтесь вставить ее обратной стороной, так как это может повредить карту памяти microSD и устройство.

3.

После вставки карты памяти microSD соберите камеру в обратном порядке.

- !

- Затяните винты в процессе сборки корпуса камеры, закройте крышку и кронштейн держателя карты SD во избежание попадания влаги.

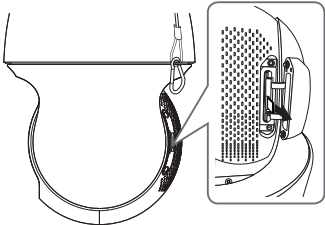


Извлечение карты памяти microSD

Мягко нажмите на выступающий конец карточки как показано на диаграмме, чтобы извлечь карточку из гнезда.

- !

- Заметьте, что если во время извлечения сильно нажать на карту памяти Micro SD, а затем отпустить ее, она может выскочить.
 - Перед извлечением карты памяти Micro SD, в разделе <Установка (⚙️)> <Событие> <Накопитель>, установите устройство в положение <Выкл.> и нажмите кнопку [Применить] и выключите камеру.
 - Если Вы выключите камеру или извлечете из продукта карту памяти Микро SD, содержащую данные, то эти данные могут быть потеряны или повреждены.



Подготовка и установка кронштейна камеры

Руководство по установке кронштейнов и корпусов приведено в руководстве по установке, прилагаемом к кронштейну или корпусу.

Доступные модели кронштейнов

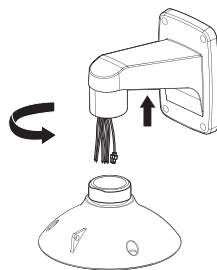
Модель	Позиция
SBP-300WMW1	Настенное крепление
SBP-300WM	
SBP-300CMW	Установка на потолке
SBP-300LMW	Крепление на парапет
SBP-300KMW	Угловое крепление
SBP-300PMW	Крепление к опоре

- Внешний вид каждого кронштейна (продаются отдельно) можно посмотреть в разделе "Дополнительные принадлежности для установки". (стр. 13)

Установка с помощью настенного крепления

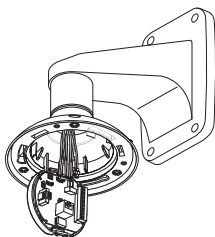
■ Фиксация основания для установки на кронштейне

1. Зафиксируйте основание на кронштейне, повернув его в направлении часовой стрелки.



2. Как показано на рисунке ниже, слегка нажмите и приподнимите ручку на навесной дверце, которая находится в нижней части основания для установки. Подсоедините провода, выполнив инструкции раздела "Плата проводного интерфейса камеры" на стр. 14.

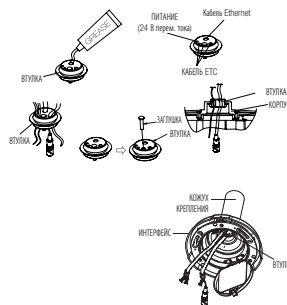
- !** ■ Не подключайте камеру к сетевой розетке до тех пор, пока установка не будет полностью завершена. Поддача питания в процессе установки может привести к возгоранию или повреждению продукта.



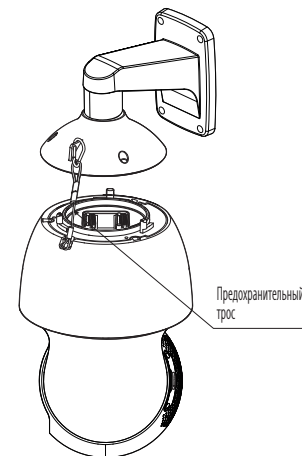
- ✓** Проверьте способ подсоединения кабеля и подключите его.

- Следует иметь в виду, что прилагаемые **ВТУЛКИ** предназначены для установки на улице, где они будут подвержены воздействию влажности через **ТРУБКУ** или **КРЕПЕЖ**. Для предотвращения попадания влаги используйте **ВТУЛКУ** при установке **КОРПУСА**.

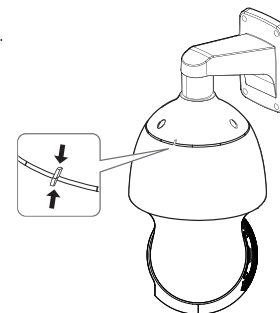
- Перед сборкой нанесите соответствующее количество смазки на **ВТУЛКУ**, а затем пропустите кабели через каждое отверстие втулок. Для закрытия отверстий, через которые не проходят кабели, используйте **ЗАГЛУШКИ**.
- Соберите **ВТУЛКИ** с верхней стороны **КОРПУСА** внутри, как показано на следующем рисунке. Быстро равномерно надавите на **ВТУЛКУ**, чтобы прочно закрепить ее в **КОРПУСЕ**, как показано на рисунке.



3. Подсоедините предохранительный трос камеры к основанию для установки.

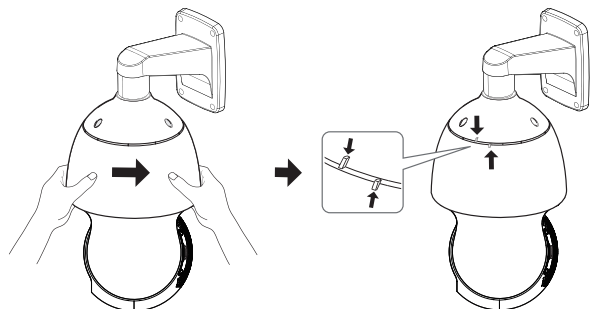


4. Сборка камеры и основания для установки. Соедините основание для установки и камеру, сопоставив установочные метки этих двух частей.



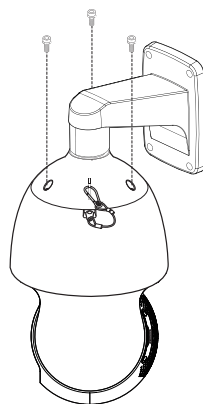
5. Крепление камеры.

Поверните основной корпус камеры по часовой стрелке так, чтобы расположить опорные метки на верхней и нижней секциях так, как показано на рисунке.



6. Крепление камеры и основания для установки.

Как показано на рисунке ниже, скрепите вместе основание для установки и камеру с помощью 3 винтов с шестигранной головкой.



Замечания по обеспечению водонепроницаемости

Эта модель представляет собой интегрированный продукт для наружной установки.

■ Фиксация крепежного элемента на основном корпусе для настенного монтажа.

1. Закрепите настенный держатель на вертикальной стене. При монтаже на наклонную стену, влага может попадать в корпус через внешний кабель.
2. Оберните винтовую часть корпуса достаточным количеством тефлоновой ленты для монтажа.
3. Убедитесь, что прокладка не отошла от крышки во время снятия крышки и установки на корпус изделия.
4. Установите держатель настенного крепления для обеспечения водонепроницаемости и используйте силиконовый герметик между стеной и настенным держателем и вокруг стены и настенного держателя для уплотнения.



■ Обратите особое внимание на обеспечение надлежащего уплотнения, если поверхность, на которую проводится монтаж, не является плоской.

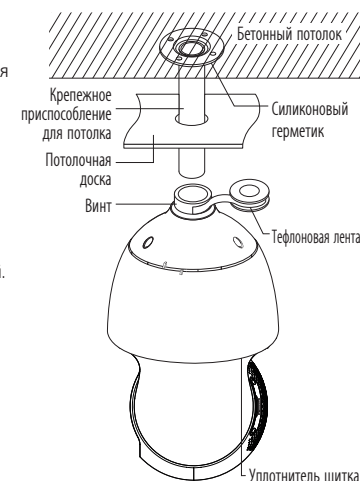


■ Фиксация крепежного элемента на основном корпусе и настенном адаптере для установки не стене.

1. Оберните винтовую часть корпуса достаточным количеством тефлоновой ленты для монтажа.
2. Убедитесь, что прокладка не отошла от крышки во время снятия крышки и установки на корпус изделия.
3. Установите крепежное приспособление для потолка для обеспечения водонепроницаемости и используйте силиконовый герметик между стеной и потолочным креплением и вокруг стены и потолочного крепления для уплотнения.



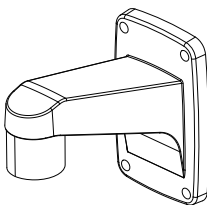
■ Обратите особое внимание на обеспечение надлежащего уплотнения, если поверхность, на которую проводится монтаж, не является плоской.



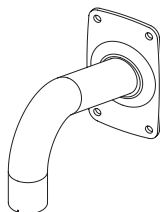
Дополнительные принадлежности для установки

Для упрощения установки можно приобрести дополнительные принадлежности.

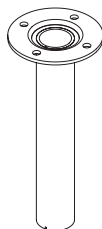
1. Если камера устанавливается на стене
 - Настенное крепление (SBP-300WMW1)



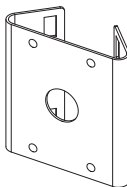
- Настенное крепление (SBP-300WM)



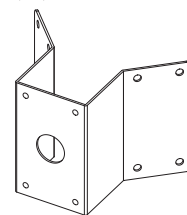
2. Если камера устанавливается на потолке
 - Установка на потолке (SBP-300CMW)



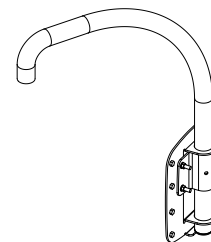
3. Если настенное крепление (SBP-300WM/SBP-300WMW1) устанавливается на цилиндре длиной не менее 80 мм
 - Крепление к опоре (SBP-300PMW)



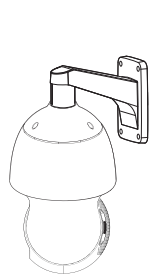
4. Если настенное крепление (SBP-300WM/SBP-300WMW1) устанавливается в углу стены
 - Угловое крепление (SBP-300KMW)



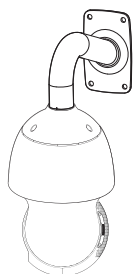
5. Если установка выполняется на крыше здания
 - Крепление на парапет (SBP-300LMW)



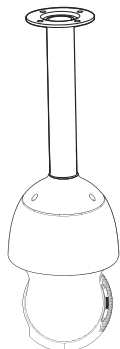
■ Монтажное соединение



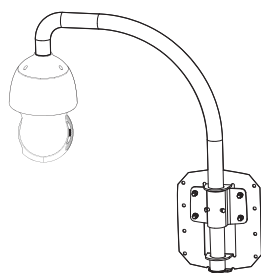
Настенное крепление
(SBP-300WMW1)



Настенное крепление
(SBP-300WM)



Установка на потолок
(SBP-300CMW)

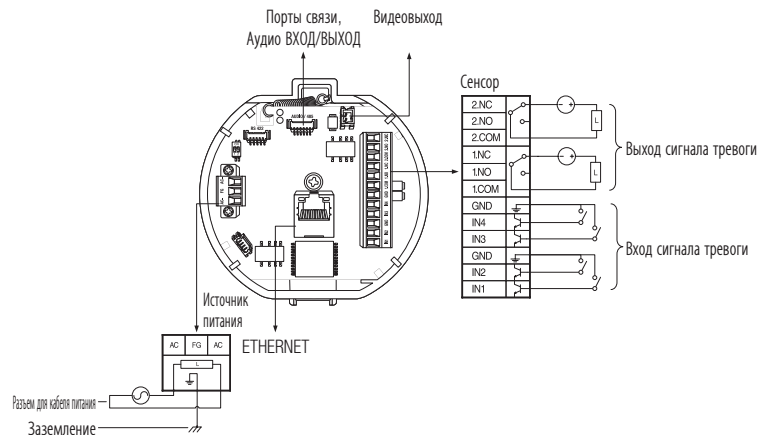


Крепление на парапет
(SBP-300LMW)

ПОДКЛЮЧЕНИЕ К ДРУГОМУ УСТРОЙСТВУ

Плата проводного интерфейса камеры

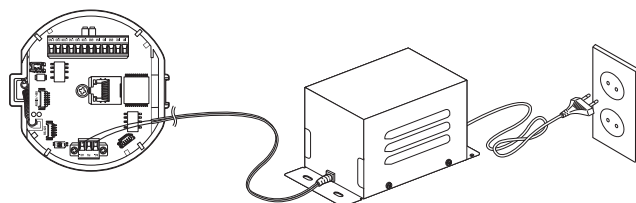
Детали электропроводки камеры представлены на рисунке ниже.



- Выберите опцию "Нормально открытый" в меню установки.
 - Входной разъем сенсора активируется при коротком замыкании для контактного типа, или когда он находится на уровне "Низкий" для активного типа.
- Выберите опцию "Нормально закрытый" в меню установки.
 - Входной разъем сенсора активируется при размыкании цепи для контактного типа или при нахождении в режиме высокого импеданса (разомкнутый коллектор) для активного типа.
- Максимальная емкость разъема выхода тревоги составляет 30 В пост. тока/2 А, 125 В пер. тока/0,5 А и 250 В пер. тока/0,25 А.
- При подключении входных и выходных сигнальных кабелей убедитесь, что каждый из них подключен к соответствующему разъему.
- Для подключения продуктов, мощность которых выше мощности камеры, используйте дополнительное релейное устройство.
- Если кабели питания и заземления подключены неправильно к разъемам NC/NO или COM, это может привести к возгоранию или поломке оборудования.

Подготовка адаптеров и кабелей

- Подсоедините камеру к адаптеру питания. Затем подключите кабель адаптера к сетевой розетке.



Перед выполнением подключений проверьте номинальное напряжение и силу тока.

Номинальная мощность	Допустимое входное напряжение	Потребление тока
24 В перем. тока	22-26 В перем. тока	6 А

- Это изделие нельзя использовать при температуре окружающей среды -50°C и ниже.
- Это изделие нельзя размораживать, в зависимости от зоны установки, при температуре -50°C .
- После того, как этот продукт был оставлен на морозе, для начала его нормальной работы потребуется до 2 часов.
- Скорость увеличения регулятора освещенности ИК может снизиться при температуре -40°C и ниже.
- Если изделие было включено после нахождения на морозе -20°C и ниже в течение некоторого времени, сбросьте время.
- Если необходимо подключить внешнее устройство, сначала отключите его.

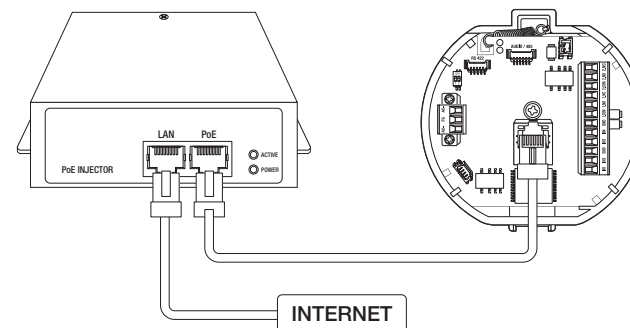
Характеристики кабеля питания

При входной мощности 24 В переменного тока:

Марка провода (AWG)	#16	#14
Длина кабеля (макс.)	14m	23m

Питание и сеть

Подключите устройство HPoE к разъему HPoE камеры.



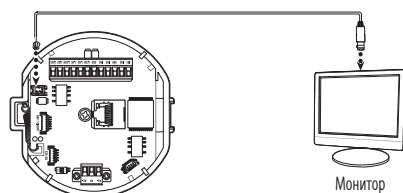
- Подключите маршрутизатор с поддержкой HPoE.
- Используйте устройство HPoE, соответствующее стандарту IEEE802.3bt.

Спецификация сетевого кабеля

Пункт	Содержание	Примечание
Разъем	RJ45 (10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	
Кабель	UTP категории 6	
Макс. расстояние	100 м	Сопrotивление по постоянному току $\leq 0.125 \text{ Ом/м}$
Поддержка питания по HPoE	HPoE	

Подключение монитора

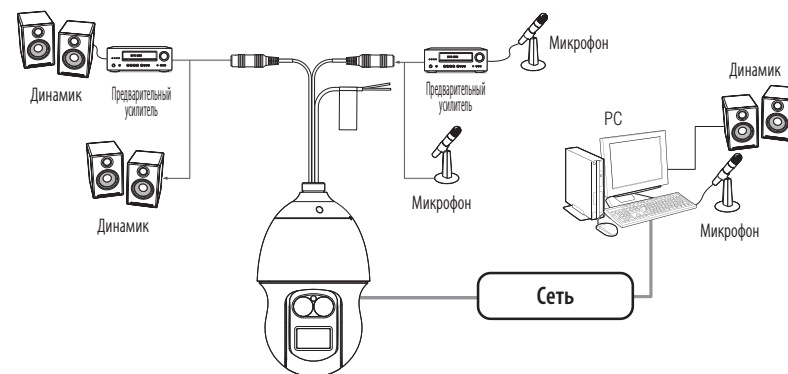
Подключите кабель к выходному видеоразъему на задней панели камеры и к входному видеоразъему монитора.



- Тип проводов зависит от типа монитора и набора периферийных устройств; см. руководство пользователя к каждому из устройств.
- При выполнении подключения проверьте, включено ли питание монитора и камеры.

- Данный продукт является сетевой камерой, передающей видеосигналы по сети; выходной видеоразъем используется для настройки диапазона визуализации камеры при ее установке.
- Использование этого разъема с целью мониторинга может вызвать такие проблемы, как снижение качества видео.
- Не подходит для 24-часового наблюдения с использованием профессиональных ЭЛТ-мониторов или портативных мониторов TFT / LCD.
- Для 24-часового наблюдения и хранения данных используйте сетевой экран.

Подсоединение звукового ввода/вывода



1. Подключите микрофон к порту AUDIO IN камеры или соедините порты AUDIO IN и LINE OUT усилителя, к которому подсоединен микрофон.
2. Подключите динамик к порту AUDIO OUT камеры или соедините порты AUDIO OUT и LINE OUT усилителя, к которому подсоединен динамик.
3. Проверьте характеристики для аудиовхода.

• Аудиокодек

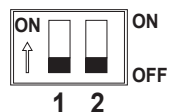
- Аудио вход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц), G.726 АДИКДМ (скорость передачи: 16кбит/с , 24кбит/с , 32кбит/с , 40кбит/с / частота дискретизации: 8кГц), AAC (скорость передачи: 48кбит/с / частота дискретизации: 16кГц)
- Аудио выход : G.711 PCM (скорость передачи: 64кбит/с / частота дискретизации: 8кГц)

• Дуплексное аудио

- **Звуковой вход** : Выбираемый (микрофон/линейный вход), поддерживаемое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: 2 кОм
- **Звуковой выход** : Линейный выход (монофонический штекер 3,5 мм), максимальный сигнал: 1 В (действующее значение)
- **Сопротивление выходного канала Line out** : 600 Ом

Настройка DIP-переключателя

переключателя протокола связи (SW1)



Номер контакта SW1	Назначение
1	Резерв
2	Настройки прерывания

• Настройки прерывания

Чтобы предотвратить ослабление сигналов связи между камерой и контроллером, для камер на концах линии необходимо задать настройки прерывания.

Расположение входа камеры	SW1-#2
Прерывание самой длинной ветви	ON
На ветви	OFF

- В каждой таблице параметров значение по умолчанию затенено.
- Если требуется использовать с данным продуктом контроллер стороннего производителя, обратитесь за консультацией в отдел сервисного обслуживания или технологический отдел.

Подключение Камеры

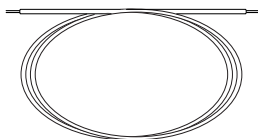
Разъемы управляющего сигнала

- Связь по RS-485



Кабель связи

Для установки связи камеры с контроллером требуется линия связи RS-485.



- Рекомендуемая длина кабеля, используемого для подключения, должна составлять 30 м или меньше.
- Кабель связи не должен находиться в одном корпусе с камерой.

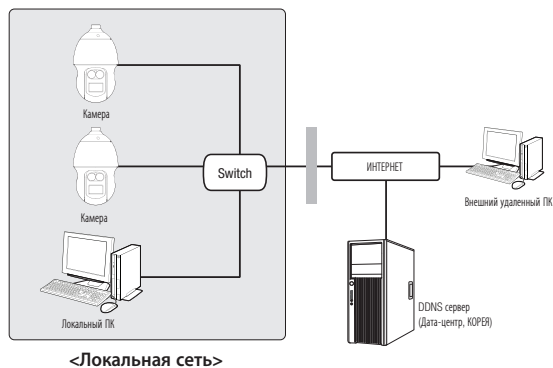
сетевое соединение и настройка

Можно выставить сетевые настройки согласно сетевой конфигурации.

ПОДКЛЮЧЕНИЕ КАМЕРЫ НАПРЯМУЮ К ЛОКАЛЬНОЙ СЕТИ

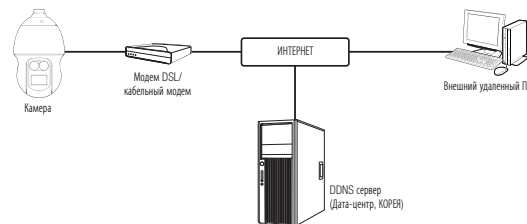
Подключение к камере через локальный ПК в локальной сети

1. Запустите Интернет-браузер на локальном ПК.
2. Введите адрес IP-роутера в адресной строке браузера.



- Удаленный ПК во внешней сети или в Интернете не может подключиться к камере, установленной в интранет, если не задана правильная переадресация портов или установлен фаервол. В этом случае обратитесь к системному администратору для устранения проблемы.
- Согласно заводским настройкам по умолчанию, IP-адрес назначается сервером DHCP автоматически. Если сервер DHCP отсутствует, будет задан следующий IP-адрес: 192.168.1.100. Чтобы изменить IP-адрес, нужно использовать Device Manager. Для получения дополнительной информации об использовании Device Manager см. раздел «Использование Device Manager». (Стр. 19)

ПРЯМОЕ ПОДКЛЮЧЕНИЕ КАМЕРЫ К МОДЕМУ DSL/КАБЕЛЬНОМУ МОДЕМУ С ПОДДЕРЖКОЙ ПРОТОКОЛА DDNS



1. Подсоедините напрямую ПК пользователя с сетевой камерой.
2. Запустите Device Manager и измените IP-адрес камеры, чтобы можно было для подключения к Интернету использовать веб-браузер вашего компьютера.
3. Установите подключение к интерактивной программе просмотра в веб-браузере.
4. Перейдите на страницу [Настройка].
5. Перейдите на страницу [Сеть] - [DDNS] и настройте параметры DDNS.
6. Перейдите по меню [Basic] - [IP & Порт] и задайте тип IP для [DHCP].
7. Подсоедините камеру, отключенную от ПК, непосредственно к модему.
8. Перезапустите камеру.



- За информацией об установке DDNS обратитесь к онлайнной справке программы Web Viewer.
- За информацией о задании формата IP-адреса обратитесь к онлайнной справке программы Web Viewer.

ИСПОЛЬЗОВАНИЕ DEVICE MANAGER

- Программу Device Manager можно загрузить с веб-сайта Hanwha Vision через меню <Служба поддержки> – <Online Tool>. (<https://www.hanwhavision.com>)
- Дополнительные инструкции по Device Manager можно найти в меню <Справка> главной страницы.

АВТОМАТИЧЕСКИЙ ПОИСК КАМЕРЫ

Если камера подключена к той же сети, что и ПК, на котором установлен Device Manager, можно найти такую сетевую камеру с помощью функции поиска.

1. Нажмите <Search (Поиск)> на главной странице Device Manager.
2. В открывшемся списке выберите нужную камеру.
 - Проверьте MAC-адрес на наклейке, прикрепленной к камере.

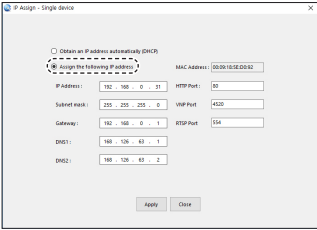
НАСТРОЙКА IP-АДРЕСА

Чтобы изменить сетевые настройки камеры, в поле <Status (Состояние)> должен отображаться значок <Login OK (Вход ОК)>. Чтобы войти в систему, на главной странице нажмите <Authentication (Аутентификация)>.

Настройка статического IP

Вручную введите IP-адрес и информацию о порте.

1. Выберите из списка камеру, у которой нужно изменить параметры IP.
2. Нажмите кнопку <IP Assign (Назначить IP)> на главной странице Device Manager.
3. Выберите <Assign the following IP address (Назначить следующий IP-адрес)>.
 - В данных параметров IP камеры будут отображаться введенные значения.
4. Заполните категории IP-адреса и порта.



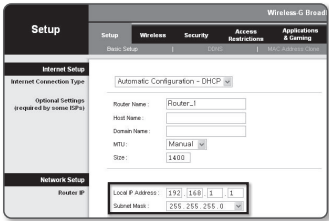
В случае отсутствия Широкополосный маршрутизатор

Попросите сетевого администратора выдать вам значения <IP Address (IP-адрес)>, <Subnet Mask (Маска подсети)>, <Gateway (Шлюз)>.

- HTTP Port : Используется для получения доступа к камере через веб-обозреватель. Значение по умолчанию - 80.
- RTSP Port : Порт, который управляет потоковой передачей в реальном времени. По умолчанию установлено значение 554.

В случае использования Широкополосный маршрутизатор

- IP Address : введите адрес, который соответствует IP-диапазону, заданному Широкополосный маршрутизатор. пр) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : параметр <Subnet Mask> Широкополосный маршрутизатор соответствует параметру <Subnet Mask> камеры.
- Gateway : параметр <Local IP Address> Широкополосный маршрутизатор соответствует параметру <Gateway> камеры.



- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.
- Дополнительную информацию о переадресации портов на широкополосном маршрутизаторе см. в разделе "Настройка Переадресации Диапазона Портов (Распределение Портов)". (Стр. 21)

Если к Широкополосный маршрутизатор подключено несколько камер

Настройте параметры, связанные с IP-адресом и портами, в соответствии друг с другом.

пр)

Категория	Камера №1	Камера №2
Настройки, связанные с IP	IP Address Subnet Mask Gateway 192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Настройки, связанные с портами	Порт HTTP Порт RTSP 8080 554	8081 555

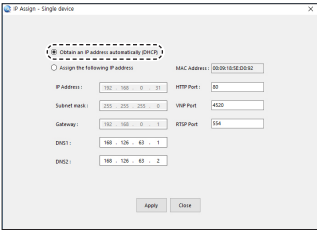
- Если для параметра <HTTP Port> выбрано значение свыше 80, необходимо указать номер <Port> в адресной строке веб-обозревателя, прежде чем получить доступ к камере.
пр) http://IP-адрес : Порт HTTP
http://192.168.1.100:8080
5. Нажмите кнопку [Применить].
 6. Если появится сообщение об успешной настройке, нажмите [OK].

Настройка динамического IP-адреса

Получите IP-адрес от DHCP

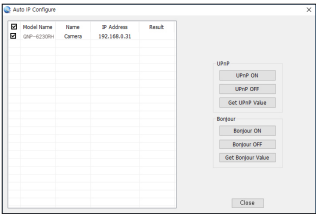
- Примеры динамического IP-окружения
 - Сервер DHCP назначает IP-адрес Широкополосный маршрутизатор с подключенными камерами.
 - Прямое подключение камеры к модему с помощью протоколов DHCP
 - Внутренний сервер DHCP назначает IP-адреса по локальной сети.

1. Выберите из списка камеру, у которой нужно изменить параметры IP.
2. Нажмите кнопку <IP Assign (Назначить IP)> на главной странице Device Manager.
3. Выберите <Obtain an IP address automatically (DHCP) (Получить IP-адрес автоматически (DHCP))>.
4. Нажмите кнопку [Apply (Применить)].
5. Если появится сообщение об успешной настройке, нажмите [OK].



АВТОМАТИЧЕСКАЯ НАСТРОЙКА IP

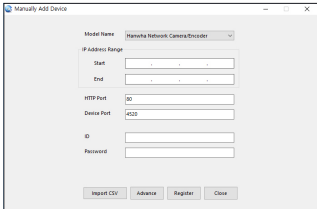
1. Выберите из списка камеру, для которой необходимо автоматически настроить параметры IP.
2. На главной странице Device Manager нажмите < + >.
 - Появится меню настроек оборудования.
3. Выберите в меню <Auto IP Configure (Автоматическая настройка IP)>.
4. Нажмите кнопку [Close (Закрыть)].



РЕГИСТРАЦИЯ КАМЕРЫ ВРУЧНУЮ

Если не удастся найти камеру с помощью функции поиска (если камера подключена к внешней сети), ее можно зарегистрировать удаленно, введя ее параметры IP вручную.

1. На главной странице Device Manager нажмите <Add Devices (Добавить устройства)> – <Manually Add Device (Добавить устройство вручную)>.
2. Введите нужный диапазон IP-адресов.
3. Выберите <Model Name (имя модели)> камеры, которую нужно зарегистрировать, и введите данные о порте HTTP, идентификатор и пароль.
4. Нажмите кнопку [Register (Зарегистрировать)].
5. Проверьте, зарегистрировалась ли камера.
 - Проверьте MAC-адрес на наклейке, прикрепленной к камере.

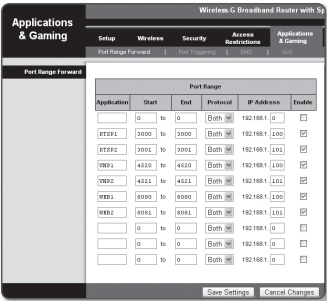


НАСТРОЙКА ПЕРЕАДРЕСАЦИИ ДИАПАЗОНА ПОРТОВ (РАСПРЕДЕЛЕНИЕ ПОРТОВ)

После установки Широкополосный маршрутизатор с подключенными камерами необходимо настроить для него переадресацию диапазона портов, чтобы с удаленного компьютера можно было получить доступ к подключенным камерам.

Переадресации диапазона портов вручную

- 1. В меню настроек Широкополосный маршрутизатор выберите <Applications & Gaming> - <Port Range Forward>.
Сведения о настройке переадресации диапазона портов для Широкополосный маршрутизатор стороннего производителя см. в его руководстве пользователя.
- 2. Выберите <TCP> и <UDP Port> для каждой камеры, подключенной к Широкополосный маршрутизатор. Номер каждого из портов, конфигурируемых в IP-маршрутизаторе, следует устанавливать в соответствии с номером, назначенным в пункте меню <Настройка> - <Basic> - <IP & Порт> в Web viewer камеры.
- 3. Затем нажмите кнопку [Save Settings].
Заданные настройки будут сохранены.

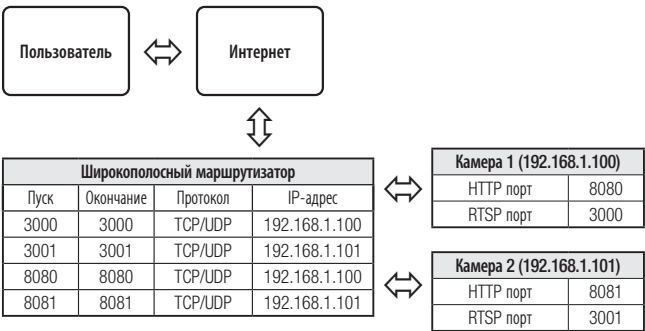


- Настройка переадресации портов является примером настройки IP-маршрутизатора CISCO.
- Параметры могут различаться в зависимости от модели Широкополосный маршрутизатор. Для получения дополнительных сведений см. руководство пользователя соответствующего маршрутизатора.

Настройка переадресации диапазона портов для нескольких сетевых камер

- Правило переадресации порта для Широкополосный маршрутизатор можно задать с веб-страницы его настроек.
- С помощью экрана настройки камеры можно изменить все порты.

Когда камера 1 и камера 2 подключены к маршрутизатору:



- Переадресация портов выполняется без дополнительной настройки роутера, если роутер поддерживает функцию UPnP (включи и работай).
После соединения с сетевой камерой установите из меню <Быстрое соединение> флажок <DDNS> в пункте "Настройки" -> "Сеть" -> "DDNS".

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С ЛОКАЛЬНОГО КОМПЬЮТЕРА ОБЩЕГО ДОСТУПА

1. Запустите Device Manager.
Она выполнит поиск подключенных камер и составит список найденных.
2. Дважды щелкните нужную камеру, чтобы получить к ней доступ.
Запустится веб-обозреватель и подключится к выбранной камере.



■ Получить доступ к найденной камере можно и другим способом: просто введите IP-адрес камеры в адресную строку веб-обозревателя.

ПОДКЛЮЧЕНИЕ К КАМЕРЕ С УДАЛЕННОГО КОМПЬЮТЕРА ЧЕРЕЗ ИНТЕРНЕТ

На удаленном компьютере, который не входит в сетевой кластер широкополосного маршрутизатора, пользователи не могут получить доступ к камерам в сети широкополосного маршрутизатора, используя URL-адрес DDNS конкретной камеры.

1. Прежде чем получить доступ к камере в сети Широкополосный маршрутизатор, необходимо настроить переадресацию диапазона портов для Широкополосный маршрутизатор.
2. На удаленном компьютере запустите веб-обозреватель и введите DDNS URL-адрес камеры или IP-адрес Широкополосный маршрутизатор в адресную строку.
пр) <http://ddns.hanwha-security.com/ID>

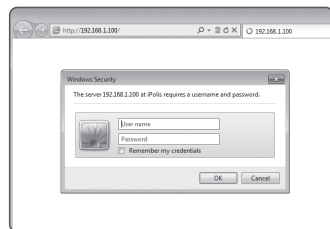


■ Чтобы использовать DDNS, зарегистрируйтесь на домашней странице DDNS (<http://ddns.hanwha-security.com>) и зарегистрируйте продукт через меню **[Мой DDNS]> [Зарегистрировать продукт]**.

ПОДКЛЮЧЕНИЕ К КАМЕРЕ

Обычный порядок действий

1. Запустите веб-обозреватель.
2. Введите IP-адрес камеры в адресную строку.
пр) • IP-адрес (IPv4) : 192.168.1.100
→ http://192.168.1.100
- появится диалоговое окно входа.
• IP-адрес (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - появится диалоговое окно входа.



Номер порта HTTP отличен от 80

1. Запустите веб-обозреватель.
2. Введите IP-адрес и номер порта HTTP камеры в адресную строку.
пр) IP-адрес: 192.168.1.100: номер порта HTTP(8080)
→ http://192.168.1.100:8080 - появится диалоговое окно входа.

Использование URL-адреса

1. Запустите веб-обозреватель.
2. Введите DDNS URL-адрес камеры в адресную строку.
пр) URL-адрес: http://ddns.hanwha-security.com/ID
- появится диалоговое окно входа.

! ■ Сетевое подключение выключено только в среде LAN.

Подключение через UPnP

1. Запустите систему клиента или операционную систему в подтверждение UPnP протокола.
2. Кликните имя камеры для поиска.
В операционной системе Windows кликните на имя камеры для поиска в меню сети.
- Отобразится окно входа.

Соединение через службу Bonjour

1. Запустите систему клиента или операционную систему в подтверждение Bonjour протокола.
2. Кликните имя камеры для поиска.
В операционной системе Mac кликните имя камеры для поиска во вкладке Bonjour в браузере Safari.
- Отобразится окно входа.

Просмотр DDNS-адреса

Если камера подключена непосредственно к кабельному модему на основе DHCP или к модему DSL, то IP-адрес будет изменяться каждый раз при соединении с Интернет-провайдером (компанией, с которой у вас подписка).

В этом случае вам не будет сообщаться об изменении IP-адреса, выполненном DDNS.

Если вы зарегистрируете устройство с динамическим IP-адресом на сервере DDNS, то во время доступа к этому устройству вы всегда можете проверить, как изменился его IP-адрес.

Чтобы зарегистрировать устройство на сервере <DDNS>, посетите веб-сайт <http://ddns.hanwha-security.com>. Сначала зарегистрируйте камеру, а затем задайте <Сеть> - <DDNS> для <DDNS> в программе Web Viewer, а также укажите <Код продукта>, который использовался для регистрации DDNS.

УСТАНОВКА ПАРОЛЯ

Когда доступ к продукту выполняется первый раз, необходимо зарегистрировать пароль входа в систему.



- Для нового пароля от 8 до 9 символов, необходимо использовать не менее 3 символов из числа следующих: строчные/прописные буквы, цифры и специальные символы. Для пароля от 10 до 15 символов необходимо использовать не менее 2 типов указанных символов.
 - Допускаются следующие специальные символы : ~!@#\$\$%^&*()_ - +={[]\;?/
- Для лучшей защиты пароля не рекомендуется повторять одинаковые символы либо символы, последовательно расположенные на клавиатуре.
- При утрате пароля можно нажать кнопку [RESET] для инициализации продукта. Не теряйте пароль, сохраните его в записной книжке или запомните.

Administrator password change

New password

Confirm new password

. If the password is 8 to 9 letters long, then it should be a combination of at least three types: upper/lower case alphabets, numbers and special characters.
. If the password is 10 to 15 letters long, then it should be a combination of at least two types: upper/lower case alphabets, numbers and special characters.
. User name should be different from password.
. The following special characters are available for use: ~!@#\$\$%^&*()_ - +={[]\;?/
. Don't use 4 or more characters consecutive together. (examples: 1234, abcd)
. Don't use 4 or more characters repeated. (examples: 1111, 1111, aaaa)

ВХОД

При каждом доступе к камере будет появляться окно входа.

Укажите идентификатор пользователя и пароль для доступа к камере.

1. Введите "admin" в поле ввода <User Name>.
Идентификатор администратора "admin" постоянный и не подлежит изменению.
2. Введите пароль в поле ввода <Password>.
3. Нажмите кнопку [OK].
После входа в систему отобразится экран интерактивной программы просмотра.



- При доступе к камере через модуль Web viewer уделите внимание безопасности и проверьте, зашифрованы ли данные, содержащие изображение.



- Если установить флажок "Remember my credentials" во время ввода данных, то в следующий раз и далее вход в систему будет выполняться автоматически без запроса данных.
- Лучшее качество видео обеспечивается при размере экрана 100%. При уменьшении экрана изображение может быть обрезано по краям.

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name

Password

☐ Remember my credentials

OK Cancel

НАСТРОЙКА WEB VIEWER

1. Щелкните по значку [Настройка (⚙)].
2. Откроется окно настроек.
3. Можно задать по локальной сети базовую информацию о камере, а также настройки видео, аудио, локальной сети, событий, анализа и системы.
4. Выберите <Справка (ℹ)> для просмотра подробного описания каждой функции.

ХАРАКТЕРИСТИКИ

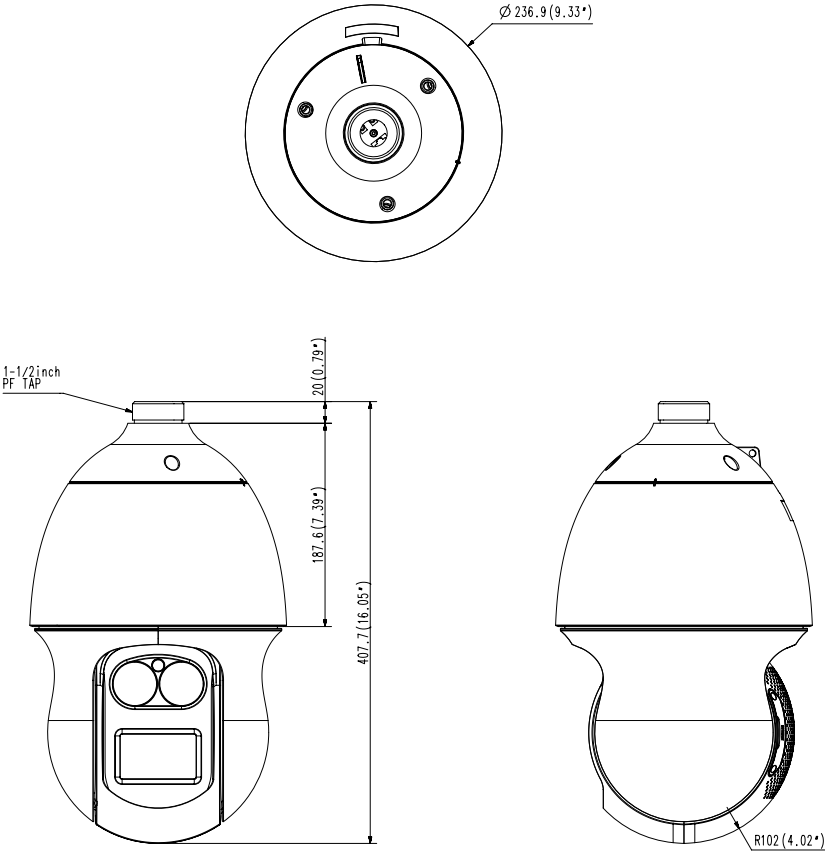
Элементы		Описание
		QNP-6230RH
Видео	Устройство обработки изображения	1/2.8" 2MP CMOS
	Количество эффективных пикселей	1944(Г)х1212(В)
	Мин. освещенность	Цветное: 0.05 люкс (F1.6, 1/30 с) Ч/Б: 0 люкс (ИК светодиод включен)
	Видеовыход	CVBS : 1.0 Vp-p / 75Ω композитный, 720x480(N), 720x576(P), Для установки
Объектив	Фокусное расстояние (коэффициент трансфокации)	4.44~102.2мм(23x) zoom
	Макс. относительное отверстие	F1.6 (широкоуг.) ~ F3.6 (теле)
	Угловое поле зрения	Г : 61.8°(широкоуг.) ~ 3.08°(теле) / В : 36.2°(широкоуг.) ~ 1.73°(теле)
	Мин. расстояние до объекта	Широкоуг.: 1.5м(4.92ft), Теле: 2м(6.56ft)
	Регулятор фокусировки	Oneshot AF
	Тип объектива	Автоматическая диафрагма
Панорама/Наклон/ Поворот	Диапазон панорамирования	360° до бесконечности
	Скорость панорамирования	Предуст.: 400°/сек, Вручную: 0,024°/сек - 250°/сек
	Диапазон наклона	95°(-5° ~ 90°)
	Скорость наклона	Предуст.: 250°/сек, Вручную: 0,024°/сек - 250°/сек
	Чередование	Предустановки (300 шт.), качание, группа (6 шт.), слежение, тур, автозапуск, расписание
	Точность предустановки	±0.2°
	Азимут	Поддержка
	Автоматическое слежение	Поддержка
	Видимый диапазон для ИК-светодиодов	100м(328.08ft)
Рабочие характеристики	Название камеры	Отображается до 85 знаков
	День/Ночь	Авто (ICR)
	Компенсация подсветки	BLC, HLC, WDR, SDR
	Широкий динамический диапазон	120dB

Элементы		Описание
		QNP-6230RH
Рабочие характеристики	Цифровое шумоподавление	SSNR V
	Цифровая стабилизация изображения	Поддержка(встроенный гироскоп)
	Защита от зловещения	Поддержка
	Детектор движения	восьмизонная оценка цветопередачи, восьмиугольные зоны
	Зоны маскирования	24-зонная оценка цветопередачи, поддержка прямоугольных зон - Цвет: Серый / Зеленый / Красный / Синий / Черный / Белый - Мозаика
	Регулировка усиления	Низкий / Средний / Высокий
	Баланс белого	Авто баланс белого / Автобаланс цвета / Вручную / Для помещений / Вне помещений
	Скорость электронного затвора	Мин/Макс/Поддавление мерцаний (2 ~ 1/12 000 с)
	Поворот изображения	Переворот, Зеркальное отображение
	Аналитика интеллектуального видео	Определение направления, Обнаружение движения, Вход/выход, Вмешательство в работу, Виртуальная граница, вторжение
	Последовательный интерфейс	RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
	В/В сигнала	Вход 4 шт./Выход 2 шт.
	Триггеры сигналов тревоги	Аналитика, Отключение локальной сети, Вход сигнализации
	События тревоги	- Выгрузка файла через FTP, электронную почту - Уведомление по электронной почте - Запись на SD/SDHC/SDXC или NAS при обнаружении событий, запускающих запись - Выход сигнала тревоги - Предустановка PTZ
	Аудио вход	На выбор (вход mic in/вход line in), Сетевое напряжение: 2,5 В постоянного тока (4 мА), входное сопротивление: приблизительно 2 кОм
	Аудио выход	Линейный выход, макс. выходной уровень: 1 В действ.

Элементы		Описание
		QNP-6230RH
Сеть	Ethernet	RJ-45 (10/100BASE-T), SFP(необязательно)
	Формат сжатия видео	H.265/H.264, MJPEG
	Разрешение	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	Макс. частота кадров	H.265/H.264: До 60 кадр/с / 50 кадр/с(60Hz/50Hz) MJPEG: До 30кадр/с / 25 кадр/с(60Hz/50Hz)
	Технология Smart Codec	Вручную (область 5ea), WiseStreamII
	Настройка качества видео	для H.264/H.265 : Управление скоростью передачи MJPEG : Управление скоростью передачи
	Контроль скорости передачи	H.264/H.265: CBR или VBR MJPEG : VBR
	Поток	Одноадресная (10 пользователей) / многоадресная передача Многопоточковая (до 10 профилей)
	Сжатие аудио	G.711 u-law /G.726, выбирается G.726 (ADPCM) 8 кГц, G.711 8 кГц G.726 : 16 кбит/с, 24 кбит/с, 32 кбит/с, 40 кбит/с AAC-LC: 48 кбит/с при 16 кГц
	Протокол	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/ TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour,LLDP, SRTP
	Безопасность	Проверка подлинности при входе HTTPS (SSL); проверка подлинности при входе Digest; фильтрация IP-адресов; регистрация доступа пользователей Способ проверки подлинности 802.1x (EAP-TLS, EAP-LEAP)
	Функция Edge Store	1 разъем microSD/SDHC/SDXC 256 Гбайт

Элементы		Описание
		QNP-6230RH
Сеть	Интерфейс прикладного программирования	ONVIF Profile S/G/T SUNAPI(HTTP API) Открытая платформа Wisenet
	Язык веб-страницы	Английский, Корейский, Китайский, Французский, Итальянский, Испанский, Немецкий, Японский, Русский, Шведский, Португальский, Чешский, Польский, Турецкий, Голландский, Венгерский, Греческий
	Веб-обозреватель	Поддерживаемые ОС : Windows 7 / 8.1 / 10, MAC OS X 10.12, 10.13, 10.14 Рекомендуемый браузер: Google Chrome Поддерживаемый браузер : MS Explore11, MS Edge, Mozilla Firefox (который поддерживается только Windows 64bit), Apple Safari 10 (который поддерживается только Mac OS X)
	Память	ОЗУ 1024 МБ, флэш-память 256 МБ
Условия	Рабочая температура/влажность	24 В перем. тока : от -50°C до +55°C (-58°F до +131°F) / Относительная влажность менее 90% HPoE : -40°C ~ +55°C (-40°F ~ +131°F) / Относительная влажность менее 90% * Запуск следует выполнять при температуре выше -35°C
	Температура хранения/ влажность	от - 50°C до +60°C (- 58°F до +140°F) / Относительная влажность менее 90%.
	Сертификация	IP66, IK10
Электропитание	Входное напряжение/ сила тока	24VAC, HPoE(IEEE802.3bt, класс 7)
	Потребляемая мощность	24VAC: Макс. 83Вт (стандартный : 30Вт) HPoE : Макс. 51Вт (стандартный : 30Вт)
Физические характеристики	Цвет/материал	Корпус: Слоновая кость / Пластик, Черная: Черная / Пластик
	Параметры/вес устройства	Ø236,9x407,7mm(9.33x16.05"), 6.8кг(14.99 lb)

Единицы измерения: мм (дюймы)



ПОИСК И УСТРАНЕНИЕ НЕПОЛАДОК

ПРОБЛЕМА	РЕШЕНИЕ
Если доступ производится через подключаемый программный модуль Free webviewer на Safari через HTTPS, видео не отображается.	- При первоначальном доступе к https во всплывающем окне с предложением аутентификации выберите "Просмотр сертификата подлинности" и установите флажок "Всегда доверять при соединении по IP, назначенному программе веб-просмотра". - Если модуль веб-просмотра по-прежнему не отображает видео после выбора "Далее" в окне сообщения внизу, нажмите командную кнопку + Q, чтобы выйти из браузера Safari, вновь войдите в систему и следуйте процедуре, приведенной выше.
Нет доступа к камере через веб-браузер.	- Проверьте на правильность сетевые настройки камеры. - Убедитесь в правильности подключения всех сетевых кабелей. - Убедитесь в том, что камера получает динамический IP-адрес при использовании DHCP-технологии. - Если камера подключена к Широкополосный маршрутизатор, убедитесь в том, что переадресация портов настроена правильно.
Происходит разрыв соединения по время мониторинга видео в экране просмотра.	- При любом изменении настроек камеры или сети происходит разрыв соединения с наблюдательными терминалами. - Проверьте все сетевые соединения.
Подключенная к сети камера не обнаружена в программе Device Manager.	Отключите фаервол на своем ПК и заново запустите поиск камеру.
Картинки перекрываются.	Убедитесь в том, что две или более камеры не транслируют данные на один и тот же multicast-адрес. Картинки могут перекрываться, если один адрес используется несколькими камерами.
Нет картинок.	Если задан метод передачи на группу адресов, убедитесь, что в локальной сети, к которой подключена камера, есть роутер, поддерживающий технологию multicast.

ПРОБЛЕМА	РЕШЕНИЕ
<Детектор движения> в меню <Аналитика> установлено в <Активировать>, но уведомления по электронной почте не приходят, даже когда произошло событие аналитики.	- Проверьте настройки в следующей последовательности: А. Проверьте настройки параметра <Дата и время>. В. Для параметра <Детектор движения> необходимо задать значение <Активировать>. С. Проверьте, выбран ли в меню <Настройка событий> параметр <Настройка событий>.
Сигнал тревоги не выводится на соответствующий порт даже при регистрации события анализа интеллектуального видео.	Проверьте настройки для выходных портов сигналов.
Не удается записать данные на карту памяти Micro SD.	Проверьте, исправна ли карта памяти.
Карта памяти Micro SD установлена, однако камера работает неверно.	- Проверьте, в правильном ли направлении вставлена карта памяти. Возможность использования карт памяти, отформатированных на других устройствах, не гарантируется. - Снова отформатируйте карту памяти в меню <Настройка> → <Событие> → <Накопитель>.
Не удается произвести запись в NAS.	Убедитесь в том, что информация, зарегистрированная в NAS, указана верно.
Это сообщение о том, что настройка NAS не удалась.	- Убедитесь в том, что IP-адрес NAS введен правильно. - Убедитесь в том, что ID/пароль NAS введены правильно. - Убедитесь в том, что доступ к папке, установленной в качестве основной папки с использованием ID номера NAS, открыт. - Убедитесь в том, что с элементов NAS SMB/CIFS сняты флажки (выделения). - Убедитесь в том, что IP-адрес NAS и IP-адрес камеры имеют одинаковый формат. Ех) Начальное значение маски подсети для NAS и камеры 255.255.255.0. Если IP-адрес 192.168.20.32, то IP-адрес NAS должен быть в диапазоне 192.168.20.1~192.168.20.255. - Проверьте, не осуществлялась ли попытка получения доступа под другим пользователем без форматирования основной папки (сохраненной или используемой). - Убедитесь в том, что используется рекомендуемое оборудование NAS.

OPEN SOURCE ANNOUNCEMENT

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If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution might be charged.

GPL SW

Component Name	License	URL
Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zerocoinf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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Version 2, June 1991

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revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.
5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).



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